BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work

Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)

First and Part Bill

ABSTRACT

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1st & Part Bill

Name of work:-Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)

Estimate cost	**2135.00 Lakhs**
Head of Account	**Amruth Nagarothan Grants**
Sanction No	**job No-003-23-000004**
Tender Amount	**18,75,33,695.86**
Tender Period	**6 Months**
Reference to Aggrement No	**BBMP/EE/YNK.D/EPMT-06/AG/31/2022-23 Dt: 02/09/2022**
Name of Contractor and full Address	**Sri.K.Venkataraju, No:23, Near Akai Public School, Nagashettyhalli, RMV 2nd Stage, Bengaluru(Bangalore)Urban, Bangalore-560094**
Date of Commencement as per agreement	**03/09/2022**
Date of Completion as per agreement	

Measurements Record No:- 05-9-2022 - 11-11-2022

Item No	Discriptions	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.Loading								

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	and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) (V-I.No 1.4,Page No-5 PWD SR 2021-22)					
	Qty Vide this E-MB and page no 1-6. 8-9-2022 – 18-11-2022	**3423.99**	**Cum**	**336.25**	**1151330.34**
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22)					
	Qty Vide this E-MB and page no 7-14. 10-9-2022 – 15-11-2022	**773.32**	**Cum**	**6362.29**	**4920111.55**
4	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R C C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 550(P-229/28.8.3) PWD SR 2018-19					
	Qty Vide this E-MB and page no 15-19 17-09-2022 – 18-11-2022	**61.95**	**Tonns**	**114292.20**	**7080467.98**
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2 of PWD SR 2021-22)					
	Qty Vide this E-MB and page no 20-30 21-11-2022 – 10-12-2022	**960.67**	**Cum**	**7265.75**	**6979960.98**
6	Providing and fixing precast reinforced cement concrete covering slabs of 10Cm thick made of M20 with OPC cement,with 20mm and down size graded granite metal coarse aggregate @0.70 mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work					
	Qty Vide this E-MB and page no 31-37	**2360.34**	**Sqm**	**2083.49**	**4917742.99**

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	22-11-2022 - 12-12-2022					
7	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)					
	Qty Vide this E-MB and page no 38	**106.92**	**Sqm**	**5064.93**	**541542.32**	
	22-11-2022 - 12-12-2022					
8	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates (V-I, No-2.1.4, P.No-15 of PWD SR 2021-22).					
	Qty Vide this E-MB and page no 39-42	**49.29**	**Cum**	**6554.75**	**323057.19**	
	24-11-2022 - 28-11-2022					
9	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as directed by the Engineer in Charge of the work (Approved Rate)					
	Qty Vide this E-MB and page no 43-46	**5476.22**	**Nos**	**509.81**	**2791840.05**	
11	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work ((V-I, P.No-8, I No-1.12 of PWD SR 2021-22)					
	Qty Vide this E-MB and page no 47-48	**139.67**	**Cum**	**71.90**	**10041.89**	
	14-10-22 - 11-11-2022					
12	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 .(V-III, I No-4.1V,P No-19,KPWD SR 2021-22)					
	Qty Vide this E-MB and page no 49-50	**139.67**	**Cum**	**2596.02**	**362589.38**	
	18-10-22 - 18-11-2022					
22	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of					

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	materials, labour and Usage charges of machinery complete as per specifications. (V-I.No 9.31,Page No-64 PWD SR 2021-22)					
	Qty Vide this E-MB and page no 51	**237.69**	**Sqm**	**1202.33**	**285781.85**
	7-9-2022 - 15-9-2022				
24	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work Depth exceeding 1.5 m, but not exceeding 3 (V-I Page No.8, Item No.1.15.2 of PWD SR 2021-22)				
	Qty Vide this E-MB and page no 52	**252.76**	**Cum**	**353.95**	**89465.04**
	18-9-2022 - 28-9-2022				
25	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-I Page No.15, Item No.2.2.2.1 of PWD SR 2021-22)				
	Qty Vide this E-MB and page no 53	**42.31**	**Cum**	**7647.02**	**323528.39**
	29-04-2022 - 11-10-2022				
26	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately)M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-I Page No.17, Item No.2.5.1 of PWD SR 2021-22)				
	Qty Vide this E-MB and page no 54	**9.88**	**Cum**	**7873.33**	**77756.98**
	13-10-2022 - 19-10-2022				
27	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6(1 cement : 6 coarse sand) (V-II Page No 9, Item No.5.4 of PWD SR 2021-22)				
	Qty Vide this E-MB and page no 55	**101.68**	**Cum**	**5997.27**	**609778.58**
	21-10-2022 - 29-10-22				
28	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.(V-I Page No.7, Item No.1.9 of PWD SR 2021-22)				
	Qty Vide this E-MB and page no 56	**316.60**	**Cum**	**225.64**	**71438.08**

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	30-10-22 - 3-11-22					
29	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) (V-II Page No.11.32, Item No.84 of PWD SR 2021-22)					
	Qty Vide this E-MB and page no 57-58		**5071.88**	**Kgs**	**117.25**	**594660.59**
	5-11-22 - 18-11-22					
30	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (V-II Page No.17, Item No.6.32 of PWD SR 2021-22)					
	Qty Vide this E-MB and page no 59		**238.79**	**Sqm**	**1329.53**	**317484.17**
	8-11-22 - 23-11-2022					
31	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.(V-II Page No.17, Item No.6.34 of PWD SR 2021-22)					
	Qty Vide this E-MB and page no 60		**23.94**	**Sqm**	**1046.37**	**25050.10**
	SUB TOTAL					**31473628.46**
	GST 18%					**5665253.12**
	GRAND TOTAL					**37138881.58**

MINETECH INFRA SOLUTIONS PVT LTD BANGALORE 560 058

Contractor

Project Management Consultants

Assistant Engineer
Yelahanka Division

Asst Executive Engineer
Yelahanka Division